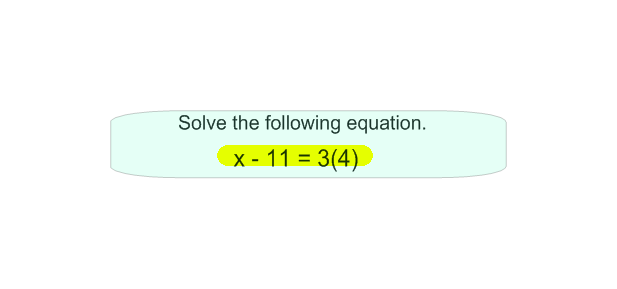
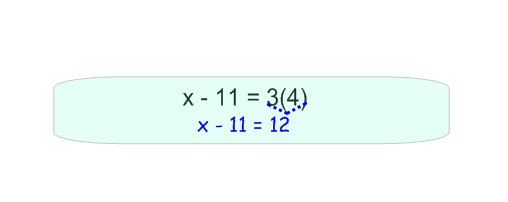
Solving Equations (without modeling)



**Steps:**

1) Simplify each side of equation (if possible)



2) Goal: **isolate the variable** (remove “pieces” of the equation to get the variable **by itself)**

***Use inverse (opposite) operations to remove numbers on the same side of the variable. Inverse operations***

***“undo” or cancel each other out.***

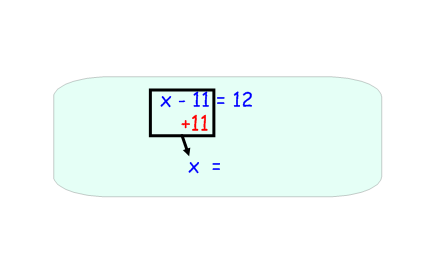
**To “undo”** **Use**

**+ -**

* +

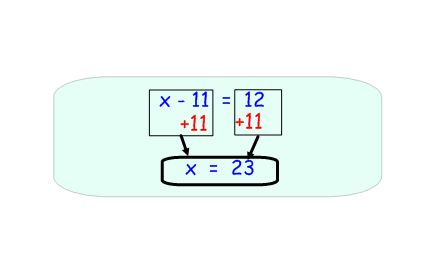
**x ÷**

**÷ x**



To keep the equation balanced, whatever you do to **one side** of the equal sign, you **must do** to the **other side**.

3)



4) Check by “plugging in” your solution to the original equation.

